



## UNITED STATES DEPARTMENT OF COMMERCE

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SERIAL NUMBER	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.
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08/082,328 06/24/93 KNIGHT

T 7828003

EXAMINER

E1M1/0515

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ART UNIT

PAPER NUMBER

11

2103

DATE MAILED:

05/15/95

This is a communication from the examiner in charge of your application.  
COMMISSIONER OF PATENTS AND TRADEMARKS This application has been examined  Responsive to communication filed on 2/10/95  This action is made final.A shortened statutory period for response to this action is set to expire 0 month/s 30 days from the date of this letter.  
Failure to respond within the period for response will cause the application to become abandoned. 35 U.S.C. 133

## Part I THE FOLLOWING ATTACHMENT(S) ARE PART OF THIS ACTION:

1.  Notice of References Cited by Examiner, PTO-892.
2.  Notice of Draftsman's Patent Drawing Review, PTO-948.
3.  Notice of Art Cited by Applicant, PTO-1449.
4.  Notice of Informal Patent Application, PTO-152.
5.  Information on How to Effect Drawing Changes, PTO-1474.
6.  \_\_\_\_\_

## Part II SUMMARY OF ACTION

1.  Claims 1-205 are pending in the application.

Of the above, claims \_\_\_\_\_ are withdrawn from consideration.

2.  Claims \_\_\_\_\_ have been cancelled.3.  Claims \_\_\_\_\_ are allowed.4.  Claims \_\_\_\_\_ are rejected.5.  Claims \_\_\_\_\_ are objected to.6.  Claims 1-205 are subject to restriction or election requirement.7.  This application has been filed with informal drawings under 37 C.F.R. 1.85 which are acceptable for examination purposes.8.  Formal drawings are required in response to this Office action.9.  The corrected or substitute drawings have been received on \_\_\_\_\_. Under 37 C.F.R. 1.84 these drawings are  acceptable;  not acceptable (see explanation or Notice of Draftsman's Patent Drawing Review, PTO-948).10.  The proposed additional or substitute sheet(s) of drawings, filed on \_\_\_\_\_, has (have) been  approved by the examiner;  disapproved by the examiner (see explanation).11.  The proposed drawing correction, filed \_\_\_\_\_, has been  approved;  disapproved (see explanation).12.  Acknowledgement is made of the claim for priority under 35 U.S.C. 119. The certificate copy has  been received  not been received  been filed in parent application, serial no. \_\_\_\_\_; filed on \_\_\_\_\_.13.  Since this application appears to be in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11: 453 O.G. 213.14.  Other

## EXAMINER'S ACTION

08/08 23 28

Art Unit 2103

1. This application contains claims directed to the following patentably distinct species of the claimed invention:

- ~ (a) Figures 1-<sup>2</sup>~~3~~, 7, 15 drawn to a modular electronic system.
- ~ (b) Figures 4+ drawn to a mcm construction system.
- ~ (c) Figure 5 drawn to a mcm system having a heat sink.
- ~ (d) Figure 6 drawn to a wave forms for digital signal system.
- ~ (e) Figure 8 drawn to a non-planar modular electronic system.
- ~ (f) Figures 9-10 drawn to a large-scale modular system.
- ~ (g) Figures 11-12 drawn to a misalignment in a capacitor coupled system.
- ~ (h) Figures 13-14 drawn to a superconducting electronic device.
- ~ (i) Figure 16a drawn to a modular electronic system coupled to a backplane.
- ~ (j) Figures 18A-C drawn to a step of mcm assembly.
- ~ (k) Figure 19, drawn to a capacitance signal path including means for adjusting overall gain.
- ~ (l) Figure 20A-B drawn to an application specific module system (ASM).
- ~ (m) Figure 21 drawn to a cable interface coupling techniques.
- ~ (o) Figure 22, drawn to an inter-chip and infra-chip capacitive signal.
- ~ (p) Figure 23A-B, drawn to a testing modules in a wafer scale modular system.

- r) Figures 25-28 drawn to a fabrication of wafer-scale modules.
- s) Figure 29 drawn to a design cycle for a modular system.
- t) Figures 30-31, 35-37 drawn to a transmitter and receiver signal path system.
- u) Figures 32-34 drawn to a switching means of electrical system.
- v) Figures 38a-b drawn to an non conductive signalling in parallel and perpendicular coupled transmission lines.

2. Applicant is required under 35 U.S.C. § 121 to elect a single disclosed species for prosecution on the merits to which the claims shall be restricted if no generic claim is finally

held to be allowable. Currently, there are no generic claims.

Applicant is advised that a response to this requirement must include an identification of the species that is elected consonant with this requirement, and a listing of all claims readable thereon, including any claims subsequently added. An argument that a claim is allowable or that all claims are generic is considered nonresponsive unless accompanied by an election.

Upon the allowance of a generic claim, applicant will be entitled to consideration of claims to additional species which are written in dependent form or otherwise include all the limitations of an allowed generic claim as provided by 37 C.F.R. § 1.141. If claims are added after the election, applicant must indicate which are readable upon the elected species. M.P.E.P. § 809.02(a).

Should applicant traverse on the ground that the species are not patentably distinct, applicant should submit evidence or identify such evidence now of record showing the species to be obvious variants or clearly admit on the record that this is the case. In either instance, if the examiner finds one of the inventions unpatentable over the prior art, the evidence or admission may be used in a rejection under 35 U.S.C. § 103 of the other invention.

3. Applicant is advised that the response to this requirement to be complete must include an election of the invention to be examined even though the requirement be traversed.

Serial Number: 08/082328  
Art Unit: 2103

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4. Any inquiry concerning this communication should be directed to Young Whang at telephone number (703) 308-1763.

Yr  
Whang

May 5, 1995

Leo P. Picard

LEO P. PICARD  
SUPERVISORY PATENT EXAMINER  
ART UNIT 213

C/T.